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☐ 1. Document ID: US 20070285094 A1

L42: Entry 1 of 17

File: PGPB

Dec 13, 2007

PGPUB-DOCUMENT-NUMBER: 20070285094

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070285094 A1

TITLE: MRI METHODS FOR COMBINING SEPARATE SPECIES AND QUANTIFYING A SPECIES

PUBLICATION-DATE: December 13, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reeder; Scott B.	Middleton	WI	US
McKenzie; Charles A.	London	WI	CA
Brittain; Jean H.	Middleton		US

US-CL-CURRENT: 324/313; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

☐ 2. Document ID: US 20070247154 A1

L42: Entry 2 of 17

File: PGPB

Oct 25, 2007

PGPUB-DOCUMENT-NUMBER: 20070247154

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070247154 A1

TITLE: CALIBRATION MAPS FOR PARALLEL IMAGING FREE OF CHEMICAL SHIFT  
ARTIFACT

PUBLICATION-DATE: October 25, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
McKenzie; Charles A.	London	WI	CA
Reeder; Scott B.	Middleton	CA	US
Shimakawa; Ann	Palo Alto		US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

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☐ 3. Document ID: US 20050020897 A1

L42: Entry 3 of 17

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050020897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050020897 A1

TITLE: Magnetic resonance method for forming a fast dynamic image

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fuderer, Miha	Eindhoven		NL

US-CL-CURRENT: 600/407; 436/173

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

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☐ 4. Document ID: US 20040260173 A1

L42: Entry 4 of 17

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260173 A1

TITLE: Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Salerno, Michael	Palo Alto	CA	US
Mugler III, John P.	Charlottesville	VA	US
Brookeman, James R.	Charlottesville	VA	US

US-CL-CURRENT: 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

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☐ 5. Document ID: US 20040155652 A1

L42: Entry 5 of 17

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040155652

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040155652 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sodickson, Daniel K.	Newton	MA	US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KWC	Draw Desc	Image				

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☐ 6. Document ID: US 20040044280 A1

L42: Entry 6 of 17

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040044280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040044280 A1

TITLE: Methods & apparatus for magnetic resonance imaging

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Paley, Martyn	Keighly		GB
Lee, Kuan	Sheffield		GB

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KWC	Draw Desc	Image				

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☐ 7. Document ID: US 20030216636 A1

L42: Entry 7 of 17

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216636  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030216636 A1

TITLE: Methods and apparatus for magnetic resonance imaging

PUBLICATION-DATE: November 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Paley, Martyn	West Yorkshire		GB
Lee, Kuan	South Yorkshire		GB

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

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☐ 8. Document ID: US 20030001571 A1

L42: Entry 8 of 17

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030001571  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030001571 A1

TITLE: Method for generating images by means of magnetic resonance

PUBLICATION-DATE: January 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Jianmin	Erlangen		DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

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☐ 9. Document ID: US 20020158632 A1

L42: Entry 9 of 17

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using  
radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences
Attachments	Claims	KMC	Draw Desc	Image				

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☐ 10. Document ID: US 7174200 B2

L42: Entry 10 of 17

File: USPT

Feb 6, 2007

US-PAT-NO: 7174200

DOCUMENT-IDENTIFIER: US 7174200 B2

TITLE: Optimized high-speed magnetic resonance imaging method and system  
using hyperpolarized noble gases

DATE-ISSUED: February 6, 2007

## PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040260173 A1

December 23, 2004

## INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Salerno; Michael

Palo Alto

CA

US

Mugler, III; John P.

Charlottesville

VA

US

Brookeman; James R.

Charlottesville

VA

US

US-CL-CURRENT: 600/420; 424/9.3, 600/407, 600/431

Full	Title	Citation	Front	Review	Classification	Date
Reference				Claims	KMC	Draw Desc Image

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☐ 11. Document ID: US 6980001 B2

L42: Entry 11 of 17

File: USPT

Dec 27, 2005

US-PAT-NO: 6980001

DOCUMENT-IDENTIFIER: US 6980001 B2

TITLE: Methods & apparatus for magnetic resonance imaging

DATE-ISSUED: December 27, 2005

## INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Paley; Martyn

Keighly

GB

Lee; Kuan

Sheffield

GB

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date
Reference				Claims	KMC	Draw Desc Image

☐ 12. Document ID: US 6965232 B2

L42: Entry 12 of 17

File: USPT

Nov 15, 2005

US-PAT-NO: 6965232

DOCUMENT-IDENTIFIER: US 6965232 B2

TITLE: Parallel magnetic resonance imaging techniques using  
radiofrequency coil arrays

DATE-ISSUED: November 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Sodickson; Daniel K.	Newton	MA		
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US-CL-CURRENT: 324/307; 324/309, 324/318, 600/410

Full	Title	Citation	Front	Review	Classification	Date
Reference				Claims	KMC	Draw Desc Image

☐ 13. Document ID: US 6806708 B1

L42: Entry 13 of 17

File: USPT

Oct 19, 2004

US-PAT-NO: 6806708

DOCUMENT-IDENTIFIER: US 6806708 B1

TITLE: Multi-coil reconstruction of MRI signals using linear phase  
multiplied data with separate demodulators for each coil

DATE-ISSUED: October 19, 2004

INVENTOR-INFORMATION:



NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Jin Hyung	Menlo Park	CA		
Pauly; John M.	Redwood City	CA		
Nishimura; Dwight G.	Palo Alto	CA		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

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☐ 14. Document ID: US 6801035 B2

L42: Entry 14 of 17

File: USPT

Oct 5, 2004

US-PAT-NO: 6801035

DOCUMENT-IDENTIFIER: US 6801035 B2

TITLE: Method for generating images by means of magnetic resonance

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Jianmin	Erlangen			DE

US-CL-CURRENT: 324/309; 324/307, 600/410

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

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☐ 15. Document ID: US 6717406 B2

L42: Entry 15 of 17

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406

DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using  
radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel K.	Newton	MA		

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	
Reference				Claims	KMC	Draw Desc	Image

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☐ 16. Document ID: US 6479996 B1

L42: Entry 16 of 17

File: USPT

Nov 12, 2002

US-PAT-NO: 6479996

DOCUMENT-IDENTIFIER: US 6479996 B1

TITLE: Magnetic resonance imaging of several volumes

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoogeveen; Romhild Martijn	Eindhoven			NL
Geraats; Diana Maria Francisca	Eindhoven			NL
Leiner; Tim	Maastricht			NL
Ho; Kai Yiu J. A. M.	Maastricht			NL

US-CL-CURRENT: 324/309; 324/307, 324/312

Full	Title	Citation	Front	Review	Classification	Date
Reference				Claims	KMC	Draw Desc Image

☐ 17. Document ID: US 6289232 B1

L42: Entry 17 of 17

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date
Reference				Claims	KMC	Draw Desc Image

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Term	Documents
MIDDLE	860068
MIDDLES	2777
SECOND	7429249
SECONDS	751329
SECONDARY	1272353

SEC	810267
INBETWEEN	22522
INBETWEENS	7
AUXILIARY	784370
AUXILIARIES	40437
AUXILIARYS	19
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